FIG. 1

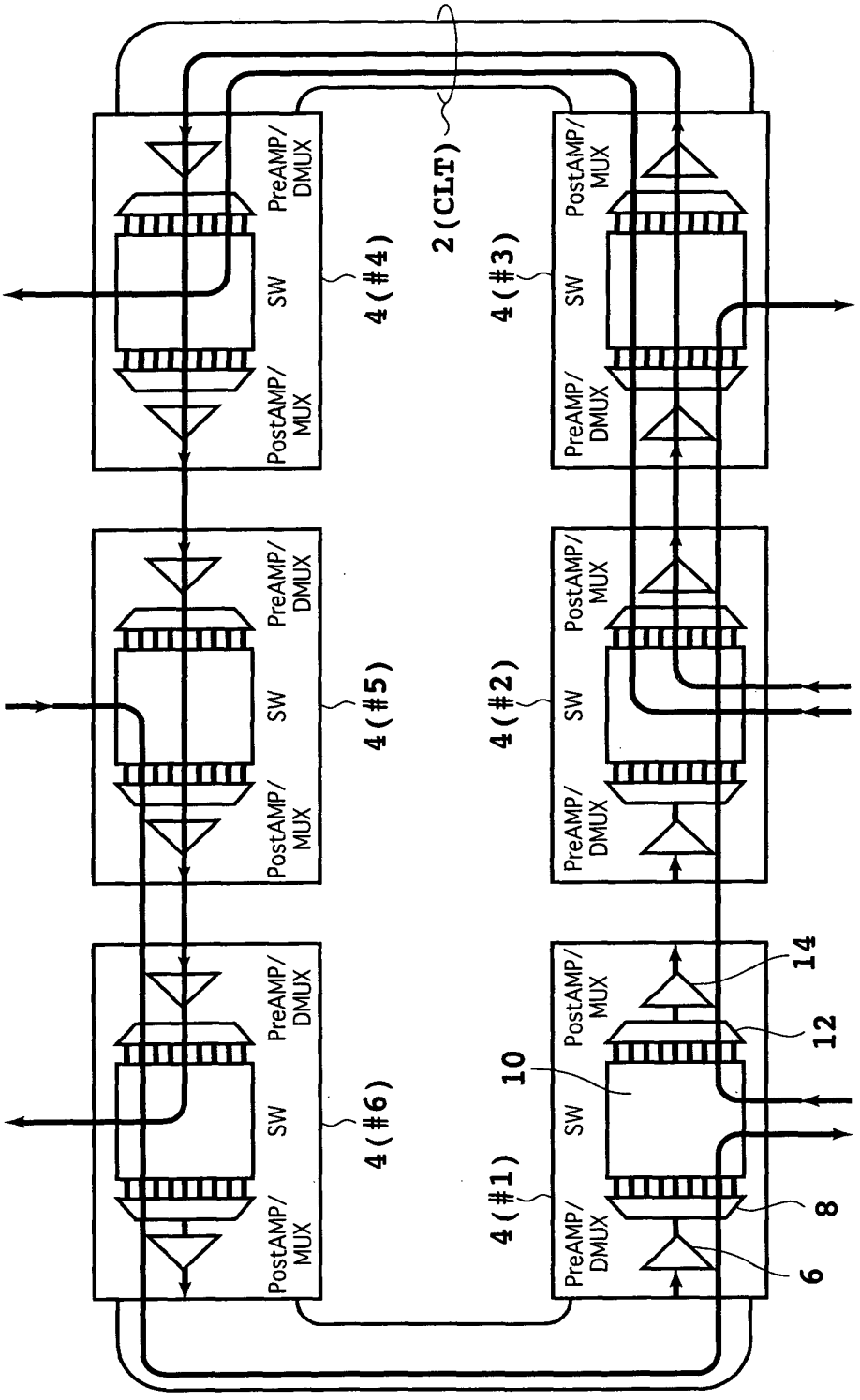
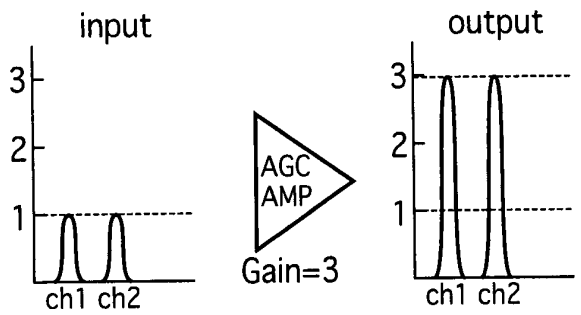


FIG.2A



INCRREASE IN THE NUMBER
OF WAVELENGTHS(ch3)

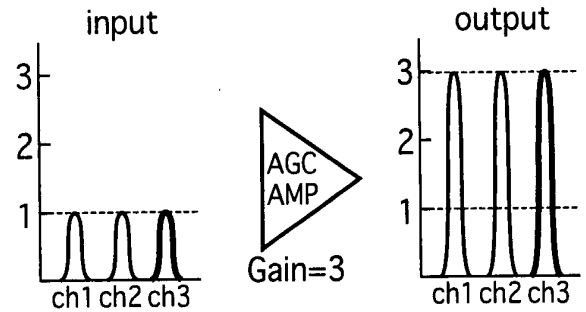
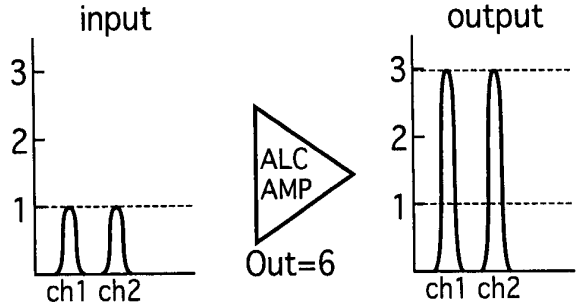


FIG.2B



INCRREASE IN THE NUMBER
OF WAVELENGTHS(ch3)

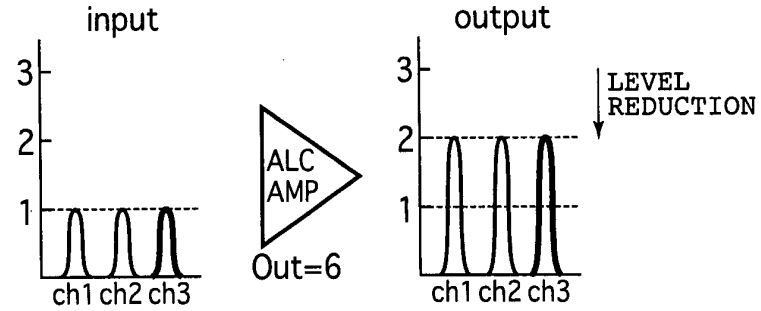
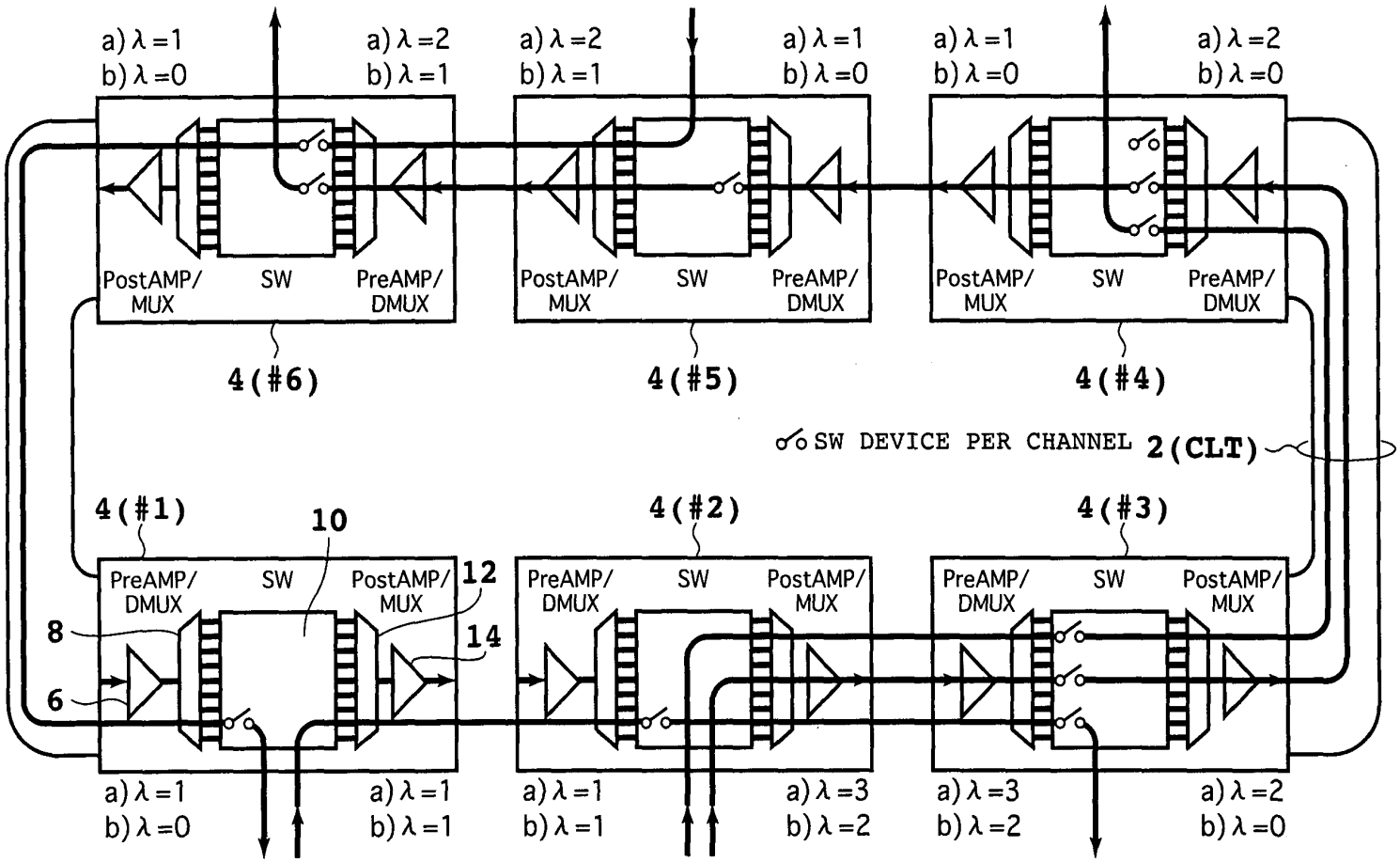


FIG.3



a) THE NUMBER OF WAVELENGTHS ACCORDING TO SETTING INFORMATION

b) THE NUMBER OF WAVELENGTHS ACCORDING TO SWITCH RESTRICTION

FIG. 4

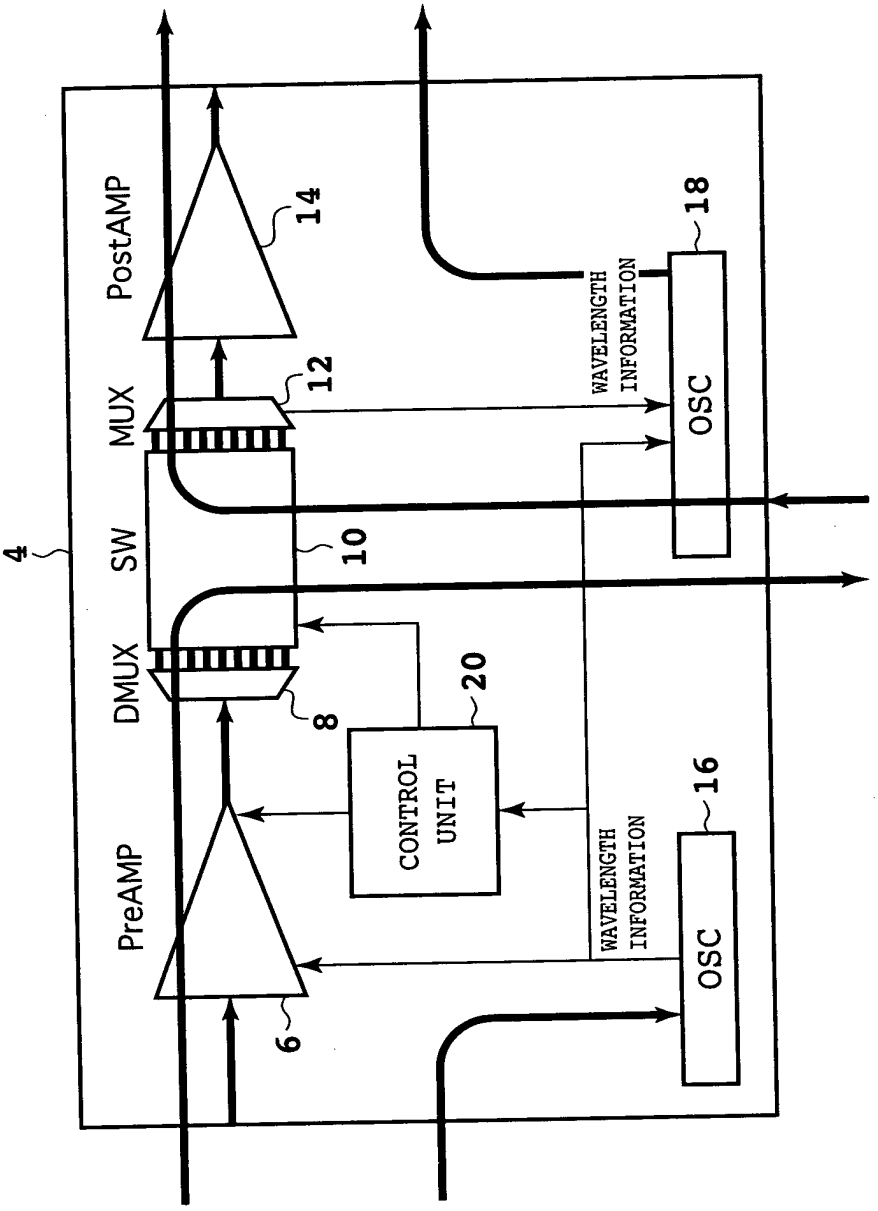
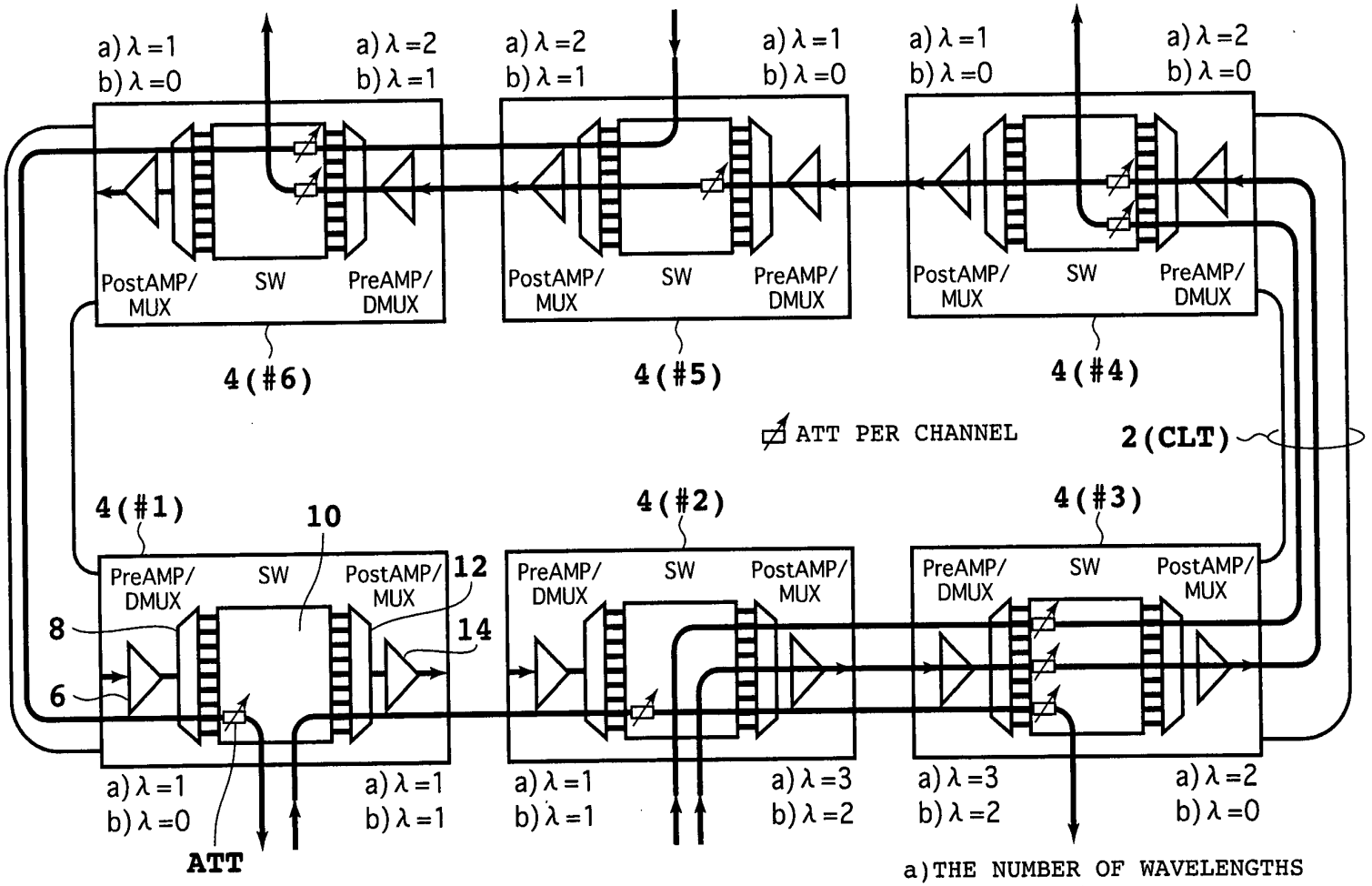

4
PreAMP
DMUX
SW
MUX
PostAMP
6
8
10
12
14
16
18
20
CONTROL UNIT
WAVELENGTH INFORMATION
WAVELENGTH INFORMATION
OSC
OSC

FIG.5



a) THE NUMBER OF WAVELENGTHS ACCORDING TO SETTING INFORMATION

b) THE NUMBER OF WAVELENGTHS ACCORDING TO ATT RESTRICTION

FIG.6

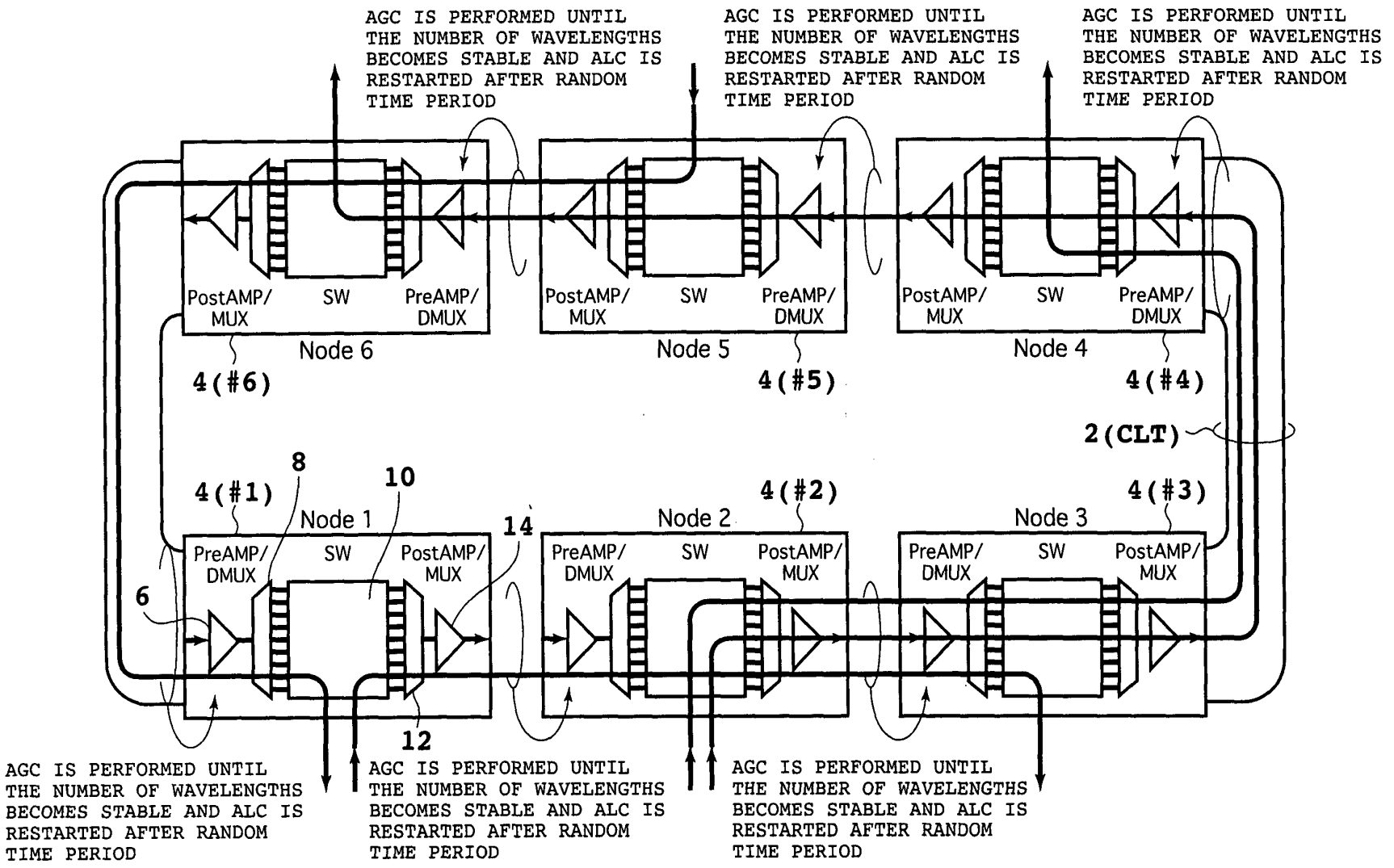

AGC IS PERFORMED UNTIL THE NUMBER OF WAVELENGTHS BECOMES STABLE AND ALC IS RESTARTED AFTER RANDOM TIME PERIOD
AGC IS PERFORMED UNTIL THE NUMBER OF WAVELENGTHS BECOMES STABLE AND ALC IS RESTARTED AFTER RANDOM TIME PERIOD
AGC IS PERFORMED UNTIL THE NUMBER OF WAVELENGTHS BECOMES STABLE AND ALC IS RESTARTED AFTER RANDOM TIME PERIOD
PostAMP/ MUX
SW
PreAMP/ DMUX
Node 6
Node 5
Node 4
4(#6)
4(#5)
4(#4)
2(CLT)
4(#1)
4(#2)
4(#3)
8
10
14
Node 1
Node 2
Node 3
PreAMP/ DMUX
SW
PostAMP/ MUX
6
12
AGC IS PERFORMED UNTIL THE NUMBER OF WAVELENGTHS BECOMES STABLE AND ALC IS RESTARTED AFTER RANDOM TIME PERIOD
AGC IS PERFORMED UNTIL THE NUMBER OF WAVELENGTHS BECOMES STABLE AND ALC IS RESTARTED AFTER RANDOM TIME PERIOD
AGC IS PERFORMED UNTIL THE NUMBER OF WAVELENGTHS BECOMES STABLE AND ALC IS RESTARTED AFTER RANDOM TIME PERIOD

FIG. 7

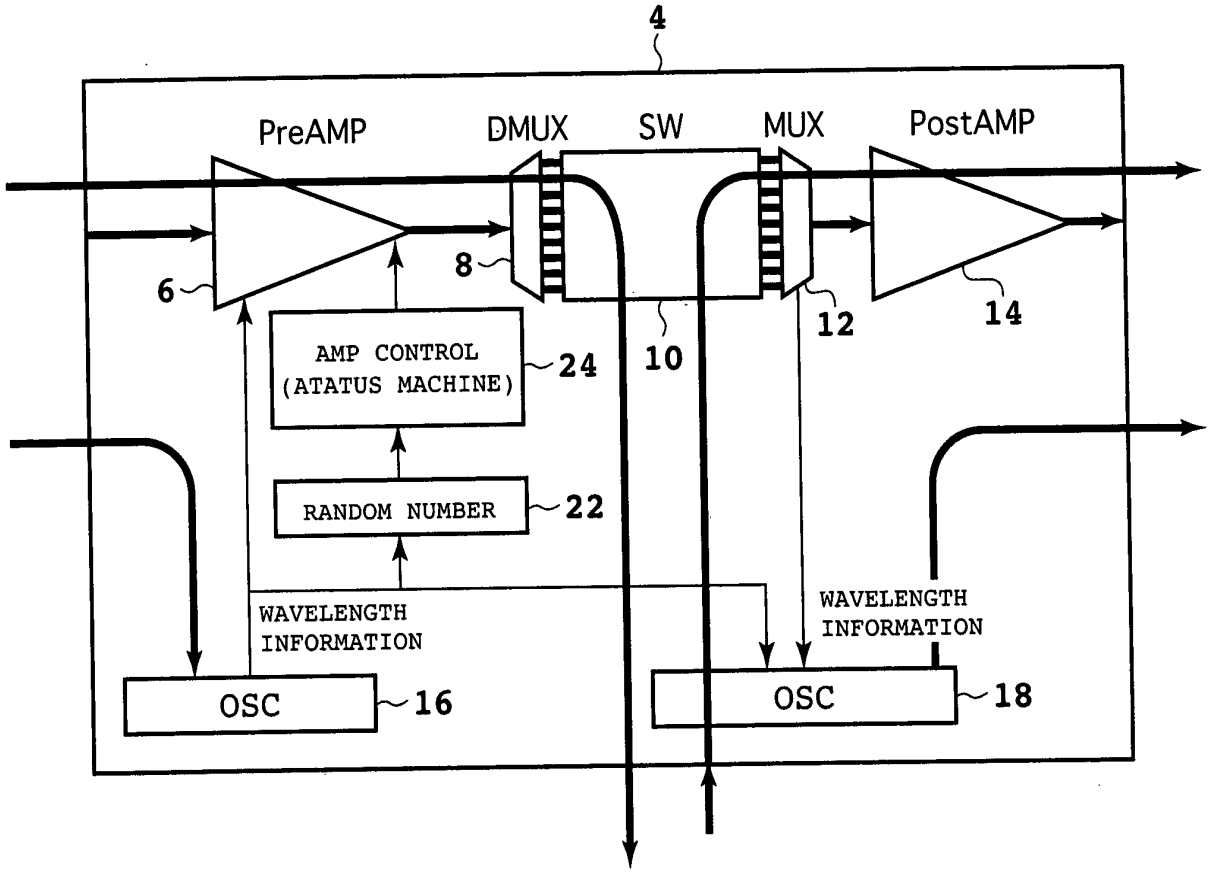

4
PreAMP
DMUX
SW
MUX
PostAMP
6
8
10
12
14
AMP CONTROL
(ATATUS MACHINE)
24
RANDOM NUMBER
22
WAVELENGTH
INFORMATION
WAVELENGTH
INFORMATION
OSC
16
OSC
18

FIG.8

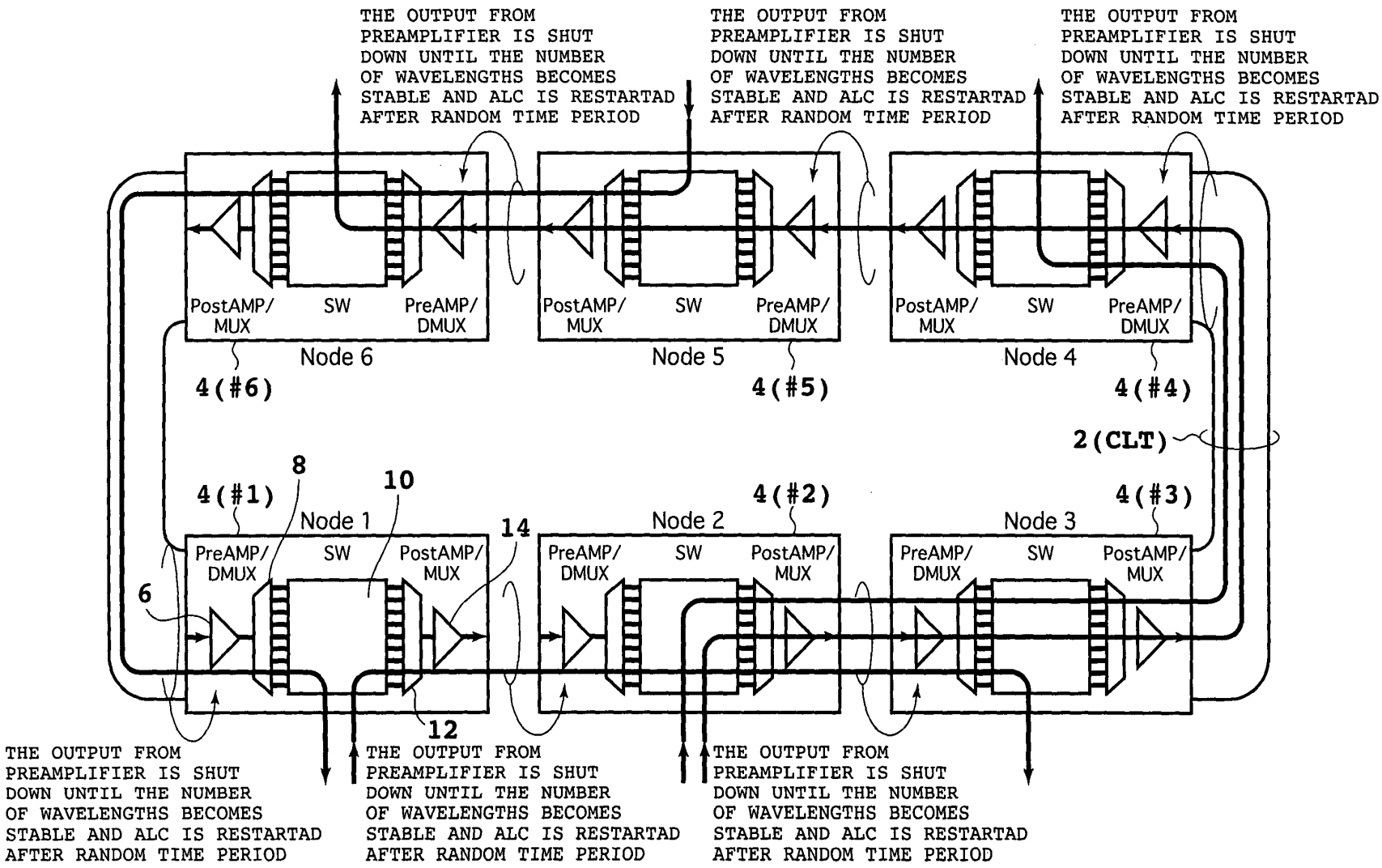

THE OUTPUT FROM PREAMPLIFIER IS SHUT DOWN UNTIL THE NUMBER OF WAVELENGTHS BECOMES STABLE AND ALC IS RESTARTAD AFTER RANDOM TIME PERIOD
THE OUTPUT FROM PREAMPLIFIER IS SHUT DOWN UNTIL THE NUMBER OF WAVELENGTHS BECOMES STABLE AND ALC IS RESTARTAD AFTER RANDOM TIME PERIOD
THE OUTPUT FROM PREAMPLIFIER IS SHUT DOWN UNTIL THE NUMBER OF WAVELENGTHS BECOMES STABLE AND ALC IS RESTARTAD AFTER RANDOM TIME PERIOD
PostAMP/ MUX
SW
PreAMP/ DMUX
Node 6
Node 5
Node 4
4(#6)
4(#5)
4(#4)
2(CLT)
8
10
14
4(#1)
4(#2)
4(#3)
Node 1
Node 2
Node 3
PreAMP/ DMUX
SW
PostAMP/ MUX
6
12
THE OUTPUT FROM PREAMPLIFIER IS SHUT DOWN UNTIL THE NUMBER OF WAVELENGTHS BECOMES STABLE AND ALC IS RESTARTAD AFTER RANDOM TIME PERIOD
THE OUTPUT FROM PREAMPLIFIER IS SHUT DOWN UNTIL THE NUMBER OF WAVELENGTHS BECOMES STABLE AND ALC IS RESTARTAD AFTER RANDOM TIME PERIOD
THE OUTPUT FROM PREAMPLIFIER IS SHUT DOWN UNTIL THE NUMBER OF WAVELENGTHS BECOMES STABLE AND ALC IS RESTARTAD AFTER RANDOM TIME PERIOD

FIG.9

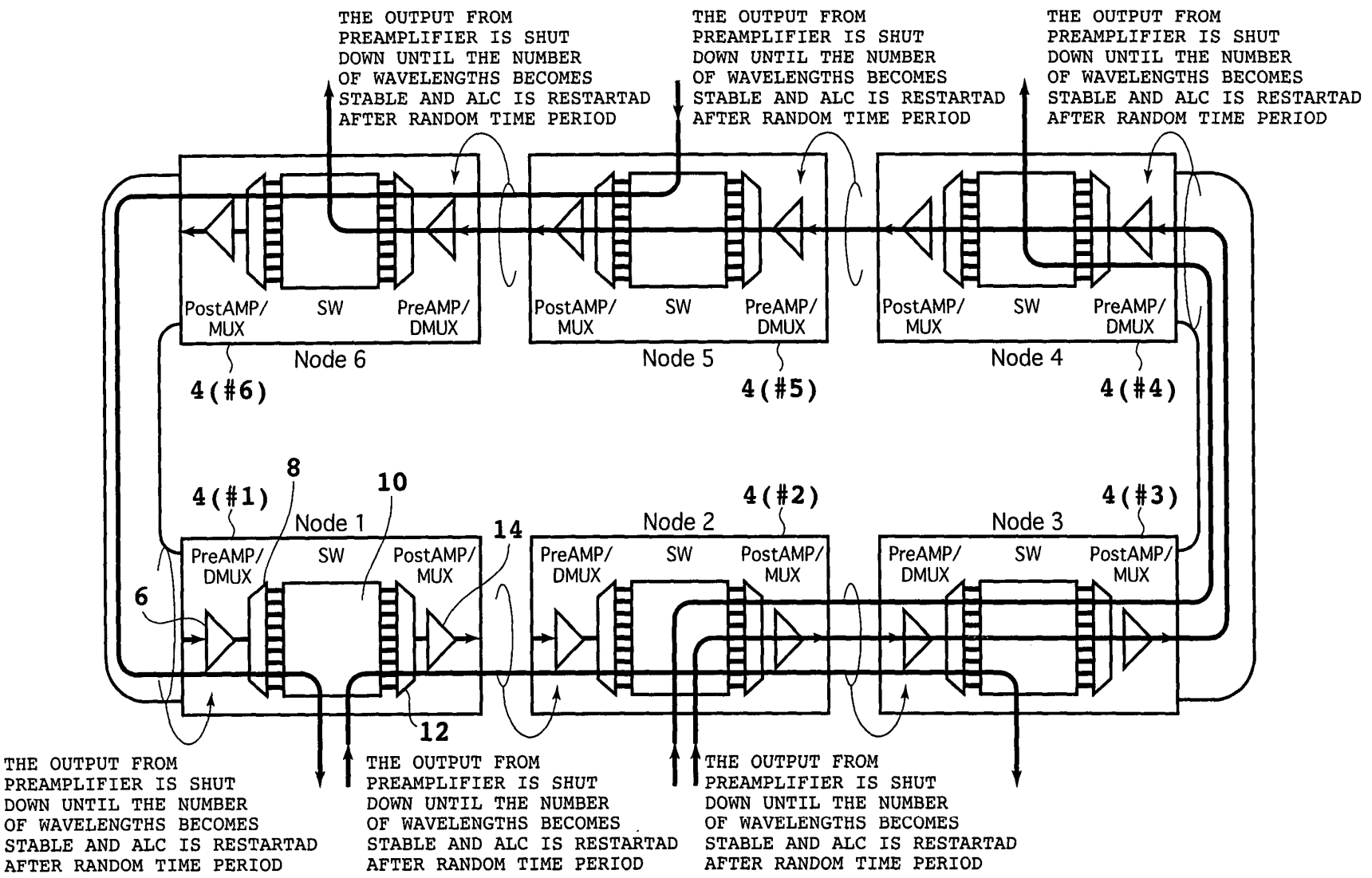
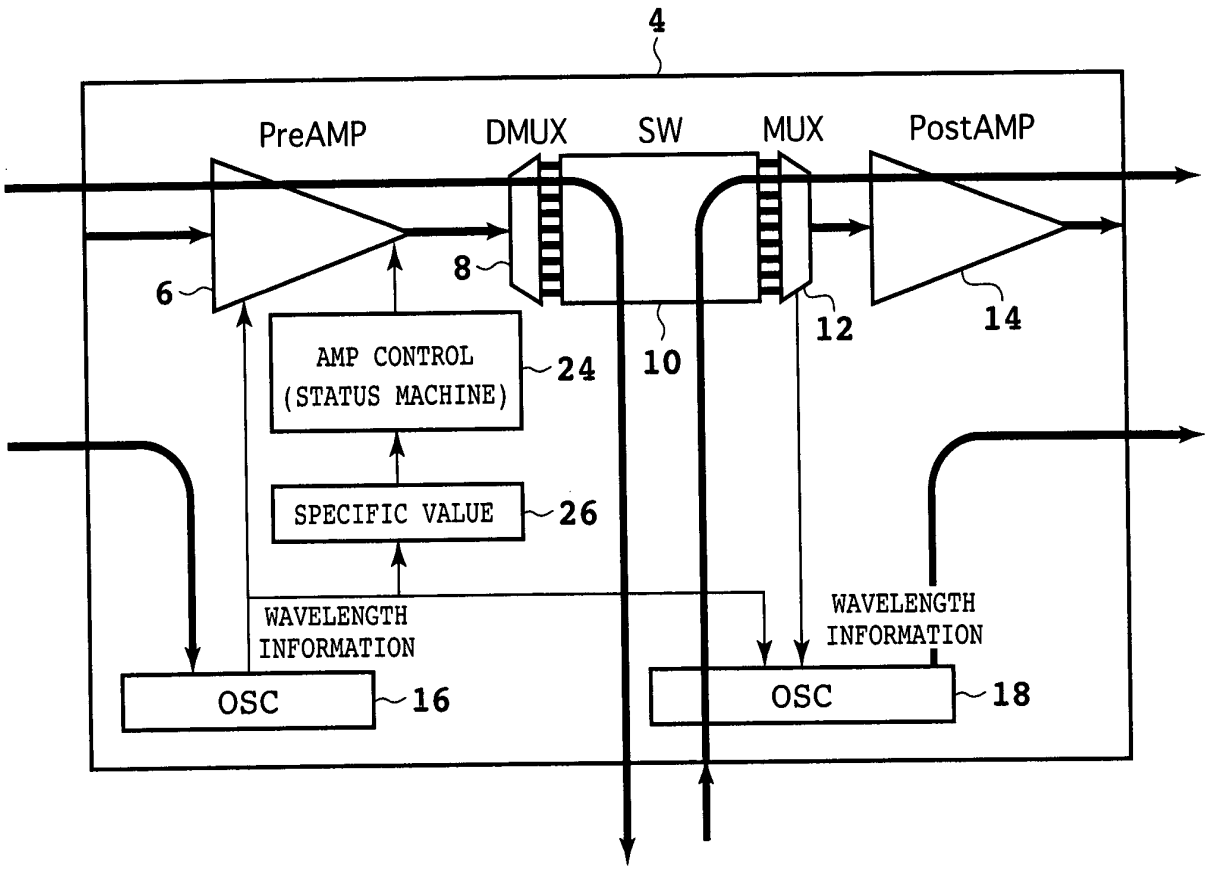

THE OUTPUT FROM PREAMPLIFIER IS SHUT DOWN UNTIL THE NUMBER OF WAVELENGTHS BECOMES STABLE AND ALC IS RESTARTAD AFTER RANDOM TIME PERIOD
THE OUTPUT FROM PREAMPLIFIER IS SHUT DOWN UNTIL THE NUMBER OF WAVELENGTHS BECOMES STABLE AND ALC IS RESTARTAD AFTER RANDOM TIME PERIOD
THE OUTPUT FROM PREAMPLIFIER IS SHUT DOWN UNTIL THE NUMBER OF WAVELENGTHS BECOMES STABLE AND ALC IS RESTARTAD AFTER RANDOM TIME PERIOD
PostAMP/ MUX
SW
PreAMP/ DMUX
Node 6
Node 5
Node 4
4(#6)
4(#5)
4(#4)
4(#1)
4(#2)
4(#3)
Node 1
Node 2
Node 3
PreAMP/ DMUX
SW
PostAMP/ MUX
6
8
10
12
14
THE OUTPUT FROM PREAMPLIFIER IS SHUT DOWN UNTIL THE NUMBER OF WAVELENGTHS BECOMES STABLE AND ALC IS RESTARTAD AFTER RANDOM TIME PERIOD
THE OUTPUT FROM PREAMPLIFIER IS SHUT DOWN UNTIL THE NUMBER OF WAVELENGTHS BECOMES STABLE AND ALC IS RESTARTAD AFTER RANDOM TIME PERIOD
THE OUTPUT FROM PREAMPLIFIER IS SHUT DOWN UNTIL THE NUMBER OF WAVELENGTHS BECOMES STABLE AND ALC IS RESTARTAD AFTER RANDOM TIME PERIOD

FIG.10


4
PreAMP
DMUX
SW
MUX
PostAMP
6
8
10
12
14
AMP CONTROL
(STATUS MACHINE)
24
SPECIFIC VALUE
26
WAVELENGTH
INFORMATION
WAVELENGTH
INFORMATION
OSC
16
OSC
18